

408A

Sharp-Cutoff Pentode

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater Characteristics and Ratings:

Voltage (AC or DC) 20.0 ± 1.0 volts
Current at heater volts = 20.0 0.050 amp

Peak heater-cathode voltage:

Heater negative with
respect to cathode. 100 max. volts
Heater positive with
respect to cathode. 100 max. volts

Direct Interelectrode Capacitances:^a

Grid No.1 to plate. 0.01 pf
Grid No.1 to cathode & grid No.3 &
internal shield, grid No.2, and
heater. 4.0 pf
Plate to cathode & grid No.3 &
internal shield; grid No.2, and
heater. 2.8 pf

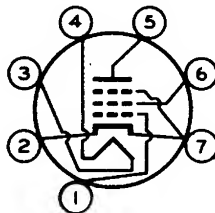
Characteristics, Class A₁ Amplifier:

Plate Supply Voltage. 120 volts
Grid-No.2 Supply Voltage. 120 volts
Cathode Resistor^b 200 ohms
Plate Resistance (Approx.) 0.34 megohm
Transconductance. 5000 μ mhos
Plate Current 7 ma
Grid-No.2 Current 2.2 ma
Grid-No.1 Voltage for maximum plate
 μ a = 200. -10 volts

Mechanical:

Operating Position. Any
Type of Cathode Coated Unipotential
Maximum Overall Length. 1-3/4"
Maximum Seated Length 1-1/2"
Length, Base Seat to Bulb Top (Excluding tip). . . 1-1/8" $\pm$ 3/32"
Diameter. 0.650" to 0.750"
Dimensional Outline See *General Section*
Bulb. T6-1/2
Base. Small-Button Miniature 7-Pin (JEDEC No.E7-1)
Basing Designation for BOTTOM VIEW. 7BD

Pin 1-Grid No.1
Pin 2-Cathode,
Grid No.3
Pin 3-Heater
Pin 4-Heater



Pin 5-Plate
Pin 6-Grid No.2
Pin 7-Cathode,
Grid No.3



RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA
4-63

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AMPLIFIER — Class A₁

Maximum Ratings, Absolute-Maximum Values:

PLATE VOLTAGE	180 max. volts
GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE. . .	180 max. volts
GRID-No.2 VOLTAGE	See <i>Grid-No.2 Input Rating Chart</i> at front of Receiving Tube Section
GRID-No.1 (CONTROL-GRID) VOLTAGE:	
Positive-bias value	0 max. volts
GRID-No. 2 INPUT:	
For grid-No.2 voltages	
up to 90 volts.	0.5 max. watt
For grid-No.2 voltages between 90 and 180 volts. .	See <i>Grid-No.2 Input Rating Chart</i> at front of Receiving Tube Section
PLATE DISSIPATION	1.7 max. watts

^a With external shield JEDEC No.316 connected to cathode.

^b Fixed-bias operation is not recommended.

